

Work Item Description

Multimedia Messaging Service (MMS) Enhancements

1 3GPP Work Area

	Radio Access
	Core Network
X	Services

2 Linked work items

- *IP Multimedia Subsystem (IMS) (SA1, SA2)*
- *USIM (T3)*
- *Charging (SA5)*
- *OSA enhancements (SA1, SA2, CN5)*
- *Presence (SA1, SA2)*
- *IMS Messaging (SA1, SA2)*
- *IMS Group Management (SA1, SA2)*
- *Generic User Profile (SA1, SA2)*
- *DRM (SA1, SA2)*
- *Push (SA1, SA2)*
- *PSS (SA4)*

3 Justification

A need for further elaboration and new functionality of MMS is identified. Therefore the following items are planned to be included in the expected work on MMS

4 Objective

Further MMS work targets the following areas which might require changes to 22.140:

- Consider and accommodate the needs of 3GPP IP Multimedia Subsystem (IMS)
- Consider and investigate enhancements to functionalities of the MMS Relay/Server and MMS UA/UE reference point (MM1)
- Consider and investigate enhancements to MMS Relay/Server to MMS Relay/Server reference point (MM4)
- Investigate and identify support for enhanced interworking and transcoding issues
- Investigate and identify support for enhancements of terminal capability negotiation mechanism to ensure terminal interoperability
- Investigate and identify support for alternative User Agent capabilities for MMS
- Investigate and identify support for detail description of User Profile mechanisms
- Investigate and identify enhancements of USIM and USAT aspects of MMS
- Investigate and identify support for security and privacy enhancements
- Investigate and identify support for Digital Rights Management
- Investigate and identify support for enhanced charging methods
- Investigate and identify support for enhancements of the interworking with external messaging systems
- Consider and investigate use of 3GPP presence service by MMS
- Investigate and identify support for enhancements of the interworking with VAS applications
- Investigate and identify support for enhancements for streaming

- Investigate and identify support for enhancements for addressing
- Investigate and identify support for enhancement of network based storage model in MMSE
- Investigate and identify support for enhancements for media types/formats and multimedia presentation (work expected to be done by SA4)
- Investigate and identify support for defining over-the-air provisioning of MMS
- Investigate and identify support for interaction with legacy handsets

The listed items shall ensure interoperability and shall be implemented in a way that will ensure backwards compatibility.

5 Service Aspects

The MMS allow users to send and receive messages exploiting the whole array of media type available today, e.g. text, sound, images, video, while also making it possible to support new content types as they become popular.

6 MMI Aspects

- Content presentation
- Service activation
- Provisioning of the service
- Message handling

7 Charging Aspects

MMS should standardise charging mechanisms especially in roaming situations and between different operators. Other charging mechanisms (e.g. air time) may be needed when MMS Relay/Server are outside of the operator's domain. The support for prepaid in MMS is required. Further Liaison with TSG-SA5 for charging issues is expected.

8 Security Aspects

Security enhancements (e.g. VPN/IPSEC, End to End Security, terminal security). Liaison with TSG-SA3 for security issues is intended.

9 Impacts

Affects:	USIM	ME	AN	CN	Others
Yes	Yes	Yes			Yes
No			No		
Don't know				Don't know	

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#	Comments	
22.140		Multimedia Messaging Service; Service aspects; Stage 1		SA#18 ?	Under SA1 responsibility	
23.140		Multimedia Messaging Service (MMS); Functional description; Stage 2		T#20		
26.140		Multimedia Messaging Service (MMS); Media formats and codecs		SA#20 ?	Under SA4 responsibility	
26.233		End-to-end transparent streaming service; General description		SA#20 ?	Under SA4 responsibility	
26.234		End-to-end transparent streaming service; Protocols and codecs		SA#20 ?	Under SA4 responsibility	
32.235		Charging data description for application services		SA#20 ?	Under SA5 responsibility	
31.102		Characteristics of the USIM Application		SA#20 ?	Under T3 responsibility	
29.198		Open Service Access (OSA) Application Programming Interface (API);		CN#20 ?	Under CN5 responsibility	

11 Work item rapporteurs

Josef Laumen, Siemens

12 Work item leadership

TSG-T2

13 Supporting Companies

Converse, Mobixell Networks, Philips, Nokia, Cellon France, Siemens, Materna, Vodafone, Orange, Ericsson, Sony Ericsson, SchlumbergerSema, Telia, Logica, Vimatix, Alcatel, CMG, Taral Networks

14 Classification of the WI (if known)

X	Feature (go to 14a)
	Building Block (go to 14b)
	Work Task (go to 14c)

14a The WI is a Feature: List of building blocks under this feature

none